

**Abstract**

**COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING HEARING  
IMPAIRMENT**

Ototoxic side-effects have either limited the application of an important group of  
5 antibiotics, aminoglycoside antibiotics, or have added further burden to those who have to resort  
to platinum-containing antineoplastic agents to treat life-threatening tumors. The present  
invention discloses pharmaceutical compositions that prevent or treat the ototoxic side-effects of  
aminoglycoside antibiotics and platinum-containing antineoplastic agents. The otoprotective  
compositions disclosed herein can also be used to treat noise induced hearing loss.

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